Options Sold Out

Open JP Ticket Sale To Be 27th

Despite the strong efforts of Inscomm to have all Saturday classes on November 5 cancelled to facilitate the activities of field day, all Saturday classes will be held as usual.

The JP Committee announced this week that JP options are to be redeemed Tuesday and Wednesday, October 25 and 26. An option for the entire weekend will cost \$12. Friday night tickets alone will sell for \$7 while a ticket for Saturday afternoon will be \$3, and Saturday night will cost \$5. It should be noted, however, that no separate Saturday afternoon or Saturday night tickets will be sold to option holders. Every option may buy all three tickets, tickets for Friday night and Saturday afternoon only, tickets for Friday night and Saturday night only, or only the Friday night ticket. Thus an option entitles the bearer to a Friday night ticket plus a priority on both of the Saturday tickets.

All option holders should be sure to redeem their options by Wednesday, October 26, since all remaining options and all remaining individual tickets will be placed in the general sale the next day - Thursday, October 27. There is a waiting list consisting of 69 people, and they will get first crack at the unredeemed options. The general sale on Thursday, October 27, will consist of 150 tickets for Saturday night above those reserved with options, plus any Saturday night tickets left as a result of option handle decoy warheads.

holders not buying all three tickets, plus any unredeemed options above and beyond the waiting list. Chances of obtaining an option in this manner are expected to be slight.

Heschel To Deliver Morris Burg Lecture



Abraham J. Heschel

Abraham Joshua Heschel, Professor of Jewish Ethics and Mysticism at the Jewish Theological Seminary of America, New York, will deliver the Lecture at MIT on Sunday, October 30. The lecture, which is free of charge and open to the public, will be held in Kresge Auditorium at 8:15 P.M. Professor Heschel will be the guest at a coffee hour for faculty and students following the lecture. Professor Heschel is the au-

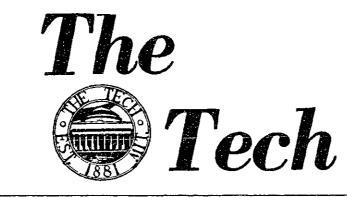
thor of "Man is Not Alone" and "God in Search of Man."

In his lecture here, Professor Heschel will discuss the topic, "Man and Mortality Today," a problem to which he has devoted much attention.

Lincoln Laboratories To Advise ARPA On Missile Defense

The Advanced Research Projects Agency (ARPA) announced today in Washington, D.C., that a special Technical Advisory Group for Ballistic Missile Defense has been set up in cooperation with the MIT Lincoln Laboratory and the Willow Run Laboratory of the University of Michigan. The avowed purpose of this group is to give recommendations on ARPA's Project DEFENDER.

Project DEFENDER is ARPA's advanced research program to find adequate means of defense against operational ballistic missiles and means to



Cambridge, Mass., Friday, October 21, 1960 Vol. 80 No. 31

NSF Research Grant

Reactor Gets A Quarter Million

A National Science Foundation grant of nearly a quarter of a million dollars has been received by MIT to expand the research facilities of the \$3,500,000 reactor located on Albany Street. The grant is making possible four major areas of additional research: (1) a neutron diffraction spectrometer will be provided for studies of the structure of molecules, crystals, etc. Atomic nuclei may also be studied by means of the spectrometer. (2) A neutron "chopper" or beam interrupter will be added to the facilities to study the effects of specific energy level neutrons on various tenth Morris Burg Memorial materials. (3) Equipment will be added to enable the insertion of short bursts of neutrons into the reactor so as to produce a short burst of reactor energy for the purpose of investigating reactor physics. (4) A "hot cell" is being installed next to the reactor for the purpose of efficiently producing radioactive iso-The reactor has been operating at its original maximum pow-

er output of one megawatt, but the grant will enable the reactor to increase its output to a full five megawatts. The reactor went "critical" (achieved sustained atomic chain reaction) on July 21, 1958; and thus was more than a year ahead of any other land-based reactor in New

England.

Freshman Council Elects Officers

William Nelson, of North Plainfield, New Jersey, was elected President of the Class of '64, in the Freshman elections held on October 11. Nelson is Leader of Section 8 and is a pledge of Sigma

In a tie vote which had to be decided by the newly-elected class president, Ronnie Gilman of Dover Club was chosen over Dave Moran as class Veep. Gilman is from Memphis, Tennessee, and is in Section 31.

The new Secretary-Treasurer of the Freshman Class is William Pinkerson, from Winnetka, Illinois. Pinkerson is also from Dover Club and is Leader of Section 28.

There will be a general class meeting for Freshmen next Tuesday, at 4:00, in Kresge Auditorium, to explain the plans and purpose of Field Day. Bill Nelson commented that, after surveying the Freshman class potential, he believes that the Sophomores should "prepare for a beating."

Phil Miller, President of the class of '63, commented on Nelson's confidence by stating that the Freshman class "has a surprise coming to them".

"Crossroads Africa" in action. Benson T. Chertok, '57, in those cities. appears at top center with trowel and beard.

Stratton Explains Policy Concerning Frosh Quizzes

Freshman quizzes will continue to be held on Mondays for the remainder of this term, and will be switched to Fridays next Spring. This decision was released by President Julius A. Stratton last Tuesday, and explained fully in the following letter addressed to Ira Jaffe, '61, Undergraduate Association President:

Dear Mr. Jaffe:

This letter is in response to your request on behalf of the Undergraduate Association that a decision to schedule freshman quizzes this fall on Mondays rather than Fridays as in the past be reconsidered.

I am aware of the many questions that have been raised by students, particularly underclassmen, by student counselors, and by some members of the Faculty as to the wisdom of such a change. The issues involved are basically matters of educational philosophy and policy. Consequently, I asked the Committee on Undergraduate Policy of the Faculty to review the facts that led to the decision and to advise me on an appropriate action.

The Committee conducted a most thorough examination, interviewing representative freshmen, upperclassmen, and members of the Faculty. It is now the unanimous recommendation that:

"The Monday quiz hour be retained for the remainder of the Fall Term, that the quiz be held on Friday during the Spring Term, and the attitude of the freshmen toward the two days be determined at the end of the Spring Term and be one of the factors considered by the Faculty in scheduling the freshman quiz hour for the future."

I approve this recommendation.

Let me add a few comments of my own.

First, it should be clear to everyone that the issue has been wholly one of educational policy, that it has therefore involved the Faculty, and that the decision has had nothing to do with administrative expediency. It might have been inconvenient to shift back to Friday after the beginning of the term but not impossible. The Committee was asked to exclude from its consideration questions of administrative detail.

Secondly, both the Committee and the Administration understand that the real educational problem involved is that of weighing certain immediate and obvious merits of Monday quizzes against the larger background of an MIT undergraduate education taken as a whole.

Finally, this incident seems to me to have provided an outstanding example of the possibilities of constructive interplay in good faith between students, Faculty, and Administration on matters of importance to us all. In the many discussions and rather voluminous correspondence that have flowed out of this unexpectedly complicated problem, I have sensed nothing but good will and a sincere concern on everyone's part for the welfare of freshmen at MIT.

> Yours sincerely, Julius A. Stratton

MIT Grad Reports on Crossroads Africa



MIT people who went to West Africa with Operation Crossroads Africa. Crossroads, founded by Rev. James Robinson, of New York City, in 1958, is a study and workcamp adventure designed to make young Americans aware of and conversant with the emerging new-Africa. The operation is financed by private contributions and the balance is paid by the participants. Through the spirited leadership of Jim DeSola, '60, we raised over \$3,000 from the MIT Community.

By Benson T. Chertok, '57

During the past summer I was one of eight

Operation Crossroads 1960 convened in New York City in mid-June for a week of orientation before leaving for West Africa. In New York the 180 participants listened as experts spoke about different phases of African life - British, French and Belgium colonialism, U.S. policies toward Africa, local social customs, recent events, missionary work, primitive art, first aid for snake bite (there are more poisonous snakes

in the USA than in Africa!) etc. ... We were divided into two groups depending on whether we were going to English-or French-speaking countries, and flown to London or Paris respec-

tively, for more orientation at the colonial offices

(Continued on page 8)

'63 Sippers, Sin Club Meet

The first meeting of the class of '63 drinking society will be held at Delta Upsilon, 526 Beacon Street, from 4 to 6 P.M. tomorrow (Saturday) evening. Also, Sigma Iota Nu, the Sen-

ior drinking society, will hold its regular meeting at the Fiji House, 28 The Fenway.

SAE Holds Annual Sailor Dance

Sigma Alpha Epsilon will hold its annual Sailor Dance this Saturday, October 22, from 8 to 12 P.M.

Attention Students

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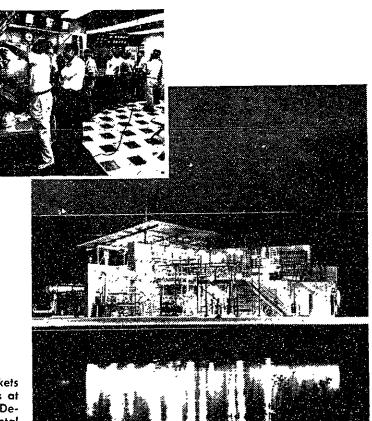
Back in 1925, when Pratt & Whitney Aircraft was designing and developing the first of its family of history-making powerplants, an attitude was born-a recognition that engineering excellence was the key to success.

That attitude, that recognition of the prime importance of technical superiority is still predominant at P&WA today.

The field, of course, is broader now, the challenge greater. No longer are the company's requirements confined to graduates with degrees in mechanical and aeronautical engineering. Pratt & Whitney Aircraft today is concerned with the development of all forms of flight propulsion systems for the aerospace medium-air breathing, rocket, nuclear and other advanced types. Some are entirely new in concept. To carry out analytical, design, experimental or materials engineering assignments, men with degrees in mechanical, aeronautical, electrical, chemical and nuclear engineering are needed, along with those holding degrees in physics, chemistry and metallurgy.

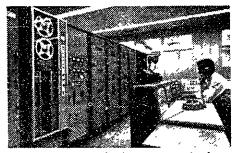
Specifically, what would you do?-your own engineering talent provides the best answer. And Pratt & Whitney Aircraft provides the atmosphere in which that talent can flourish.

> Development testing of liquid hydrogen-fueled rockets is carried out in specially built test stands like this at Pratt & Whitney Aircraft's Florida Research and Development Center. Every phase of an experimental engine test may be controlled by engineers from a remote blockhouse (inset), with closed-circuit television providing a means for visual observation.

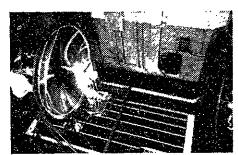




At P&WA's Connecticut Aircraft Nuclear Engine Laboratory (CANEL) many technical talents are focused on the development of nuclear propulsion systems for future air and space vehicles. With this live mock-up of a reactor, nuclear scientists and engineers can determine critical mass, material reactivity coefficients, control effectiveness and other reactor parameters.



Representative of electronic aids functioning for P&WA engineers is this onsite data recording center which can provide automatically recorded and computed data simultaneously with the testing of an engine. This equipment is capable of recording 1,200 different values per second.



Studies of solar energy collection and liquid and vapor power cycles typify P&WA's research in advanced space auxiliary power systems. Analytical and Experimental Engineers work together in such programs to establish and test basic concepts.

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For further information regarding an engineering career at Pratt & Whitney Aircraft, consult your college placement officer or write to Mr. R. P. Azinger, Engineering Department, Pratt & Whitney Aircraft, East Hartford 8, Connecticut.

Tech's Music Men Give Performances At Kresge, Tonight

A once-a-year free musical program, engineered and programmed by Techmen for Techmen and their guests, will be presented on tomorrow night, at 8:30 P.M., in Kresge Auditor-

Music Groups in Action

This special program, sponsored by the MIT Musical Clubs, will show each of MIT's musical groups in action - each organization will have a turn at filling Kresge's acoustically perfect interior with about ten minutes of their special brand of sound, from jazz to symphonic.

by John Corley, will present three examples of pieces composed especially for him posed especially for brasses by the 17th century composers Giovanni Gabrieli (Venetian) and William Brade (English).

Glee Club Featured Next on the program will be the MIT Glee Club, a group of about 80 strong under the direction of Music Director Klaus Liepmann, singing Beethoven's "Alleluia", "The Donkey" by Hugh S. Robertson, and the

well-known American work song "This Ol' Hammer".

The Techtonians follow with "Take the A-Train" in a special arrangement by Arif Mardin of the Berklee School of Music, "Artistry in Rhythm" and "Opus in Pastels" by Stan Kenton.

After a short intermission, the Symphony Orchestra and the Concert Band will play. Both groups are under the direction of John Corley. The Orchestra, now numbering about 70 members, wil play excerpts from Bizet's "Carmen", and the Concert Band, with about 65 members, will perform the "Toccata Marziale" by Ralph Vaughn Williams.

The grand finale will be a combined effort by the Glee Club and the Concert Band in the mighty "Testament of Freedom" by Randall Thompson.



The Tech

Ghosts At MIT

Not long ago President Case of Colgate University sounded a sharp warning to American universities, telling them to beware of "ghost faculties". He stated that many professors in the U.S. today receive high salaries to do government research, but have "undefined" teaching responsibilities; citing an example, he went on to say that, "More than half of the budget of one privately controlled eastern university comes from government sources."

The New York Times was quick to back up President Case's stand, saying, "Is not the first rate teacher . . . worthy of more respect and advancement than the mediocre teacher whose 'research' output is some piece of unimaginative drudgery that is of the most marginal importance?"

The "eastern university" to which the President of Colgate referred is commonly agreed to be MIT. Whether this is true or not, many people will take it to be so.

It is fitting that we clarify the issue of the budget, and reflect somewhat on the role that research does play here at MIT.

Last year the expenses of current operation for MIT were \$91,950,000. Of this, \$66,000,000 was paid by government and industry in return for research done. The remainder came from tuition, gifts, investment, etc. These, however, are not the significant figures when one is concerned with faculty salaries and duties. Faculty salaries last year totaled \$8,620,000. Of this, \$3,770,000 came from the government. This is 44% of the total, considerably less than half.

In considering the nature and the role of research here at MIT, let us first eliminate from our consideration such projects as the Lincoln Laboratory and the Instrumentation Laboratory. They are managed by MIT for the government, more or less in the line of duty to the country. With few exceptions, personnel in these labs are not faculty-members, do not have the title professor, and do not teach. (It is the operation of these laboratories, incidentally, which accounts chiefly for the \$66,000,000 figure mentioned above.)

If we then confine our attention to research done by faculty members for government and industry, we find in most cases that it is work by the various professors which, besides advancing knowledge in the field, contributes immeasurably to their effectiveness as teachers. However brilliantly a professor may assemble and put across the body of knowledge that is a given subject, if all he does is present the known, accomplished work in the field, his worth is sharply curtailed. The fields of science and engineering are expanding at an accelerating rate. If our professors are not at the frontiers of existing knowledge, doing the research that moves the frontier forward, we can not expect to gain insight from them into what will be going on in our fields when we enter them a few

If our courses are to be anything but a sterile rehash of existing knowledge, we must have our professors in research. The 50-50 balance between research and teaching which is gener-

ally observed at MIT in assigning professors' duties seems like an ideal balance to us.

President Case and the New York Times notwithstanding, we would rather study under men who are doing the work that will be written up in textbooks five and ten years hence, than learn from teachers masterfully putting across the developments of five and ten years ago.

Von Braun and Huxley

Wernher von Braun, speaking in Kresge last week, made some statements which, upon reflection, do not ring true.

First, in answer to his self-posed question, "Why Must We Conquer Space?" he replied, "To satisfy our scientific curiosity." This is the truth, but not the whole truth. If you were to ask a Congressman, or the man in the street, why we must conquer space, the chances are overwhelming that he would say, "To stay ahead of the Russians." The American space program of which Dr. von Braun is such an integral part, is largely an ad boc effort to meet the demands of competition with the U.S.S.R. The motivation for the financing of his work and that of his colleagues is not solely a desire for knowledge.

Von Braun's statement to the effect that "The scientist must be a good soldier and do what is demanded of him," is questionable at best. Too often, at MIT and elsewhere, scientists and engineers regard themselves as artisans or craftsmen whose responsibility for their product ends with delivery to the user. Such an attitude is acceptable when your product is a cobblestone or a china plate, but it is dangerous beyond belief when your creation is poison gas or an H-bomb. The exploitation of modern drugs and psychology, as well as the development of the weapons of mass destruction, are unmistakable indications that today, as never before, the actions of the scientific community may well determine the fate of the nation as well as the world.

Faced with the sheer magnitude of the forces he is unleashing, the scientist cannot in our opinion escape responsibility.

Professor Huxley in his lecture Wednesday night differentiated between the individual as he sees himself in his historical context and the individual as he detaches himself from this context. Modern man, in his everyday life, Huxley said, is capable of sensing little or none of the historical progress which is going on about him. The situation is tragic, but especially so for the scientist and engineer. Since the scientist is responsible for our most rapid progress, it becomes vitally important for him to be able to discern the consequences of his work and to think of them morally in terms of history, as von Braun apparently does not.

We can see the beginning of attitudes such as his right here at MIT, where many of us ignore our position in society and take refuge in our work. There is little attempt on the part of the faculty to draw us out from this refuge. The widespread retention of this amoral attitude, as we leave MIT and enter our various fields, could have more devastating consequences than it is pleasant to imagine.

The Tech

Vol. LXXX, No. 31 October 21, 1960

TECH, Walker Memorial (50-211), Cambridge 39, Mass. Telephones TRowbridge 6-5855 or -5856, or University 4-6900, extension 2731.



"HOME SWEET HOMECOMING"

A great number of people have been asking me lately, "What is Homecoming?" but I have been so busy trying to find out why my new sports car leaks that I haven't had time to answer. I am now pleased to report that I finally discovered why my sports car leaks—I have been driving it upside down—and so I am ready today to turn my attention to Homecoming.

Let's begin with definitions. Homecoming is a weekend when old grads return to their alma maters to watch a football game, visit old classrooms and dormitories and inspect each other's bald spots.

The weekend is marked by the singing of old songs, the slapping of old backs and the frequent exchange of such greetings as "Harry, you old polecat!" or "Harry, you old porcupine!" or "Harry, you old wombat!" As you can see, all old grads are named Harry.

It is not just old grads who behave with such liveliness during Homecoming; the faculty also comports itself with unaccustomed animation. Teachers laugh and smile and pound backs and keep shouting "Harry, you old Airedale!" This unscholarly behavior is carried on in the hope that old grads, in a transport of bonhomie will endow a new geology building.

The old grads, however, are seldom seduced. By game time on Saturday their backs are so sore, their eyeballs so eroded, their extremities so frayed, that it is impossible to get a kind word out of them, much less a new geology building.



Even the football game does not improve their tempers. "Hmmph!" they snort as the home team completes a 101-yard march to a touchdown. "Do you call that football? Why, back in my day, they'd have been over on the first down! By George, football was football in those days—not this namby-pamby girls' game that passes for football today! Take a look at that bench—50 substitutes sitting there. Why, in my day, there were 11 men on a team and that was it. When you broke a leg, they slapped a piece of tape on it and you went right back in. Why, I remember the big game against State. Harry Sigafoos, our star quarterback, was killed in the third quarter. I mean, he was pronounced dead. But did that stop old Harry? Not on your tintype! Back in he went and kicked the winning drop kick in the last four seconds of play, dead as he was. Back in my day, they played football, by George!"

Everything, say the old grads, was better back in their day—everything except one. Even the most unreconstructed of the old grads has to admit that back in his day they never had a smoke like Marlboro—never a cigarette with such a lot to like—never a filter so easy drawing, a flavor so mild yet hearty, so abundant, so bountiful—never a choice of flip-top box or soft pack.

So old grads, young grads, and undergrads, why don't you settle back and have a full-flavored smoke? Try Marlboro, the filtered cigarette with the unfiltered taste, and Homecoming will be a happy occasion and the sun will shine and the air will be filled with the murmur of wings and no man's hand will be raised against you.

At Homecoming time—or any time—try Marlboro's unfiltered companion cigarette—mild, flavorful Philip Morris...

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Funny Flick at Exeter

Sellers Strikes Up Riot in 'Jack'

By George Lakoff, '62

"I'm All Right, Jack," a British satire with Peter Sellers now playing at the Exeter, lets loose a highly charged and uproariously funny volley at modern labor.

Works Too Hard

Ian Carmichael delightfully portrays Candide-like Harold Windrush, an aristocrat who tries to find a useful existence in being a factory worker. Windrush is, however, slow to learn the ways of the working class, and he gets caught doing too much work. For this, his union sends him into Coventry (a month's silent treatment) and calls a plant-wide strike. The strike grows into a general strike, and Windrush becomes a figure of national

The film is funniest and most hitting in its caricature of the modern factory worker. Peter Sellers riotously plays Kite, the shop steward who watches over his brothers-at-goofing-off with the determination of a general in battle and the pettyness of a spoiled child. He and the "brothers" who have dull factory jobs have no concern with their work itself, but spend most of their time defending against the enemy, Management.

Hero Windrush

In carrying out the old comic theme of human foibles slowing down (and, in this case, stopping completely) the March of Progress, the movie seems at times to spill over from the realm of introspective self-criticism to that of socialist propaganda. Harold might be the hero-worker whose main interest is in doing his job. Although stupid and delightfully fraught with temptation, Harold is the only major figure in the movie with any integrity. Tempted by a bi-lateral labor-management bribe, Harold turns on the bribers, exposing his uncle and his wartime buddy as big-business

> crooks and blasting Kite and the other self-effacing socialists like him as proponents of the line, "To each according to his needs, from each as little as he can get away with." If the movie is propaganda, Harold's big scene climaxes it perfectly. He tosses the bribe money into the air, and hordes of workers go grovelling madly after it.

"I'm All Right, Jack" calls us wastrils, and it savs we enjoy being the wastrils we are. The theme is contained in the

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Since this weekend falls in the middle of the first round of upperclass quizzes, a lot of the attractions around town now will go virtually unseen by MIT eyes. The lucky people, though, who had all five quizzes this week, have a variety of entertaining

If you've never seen "Streetcar Named Desire", you just haven't lived. Tennessee Williams' little jaunt through New Orleans will be at the Charles for another three weeks.

This weekend is your last chance to catch Shelley Winters in "Invitation to a March" at the Colonial. This one is fairly

Reputed to be really funny is "The Rape of the Belt", the on Benn Levy comedy imported from London, at the Wilbur until next Saturday. The plot concerns Hercules and Hippolite (queen of the Amazons, clod).

John Gielgud is the director of "Five Finger Exercise", last year's Broadway hit which reaches the Colonial on tour, Monday. Jessica Tandy stars in this slice of English family life.

The college boys (and girls) up river seem to have done a good job with "Troilus and Cressida". See for yourself, tonight or tomorrow at Loeb Drama Center.

Twenty to one, you won't get to see the surest hit to reach Boston this season. Another Lerner and Loewe musical with Julie Andrews starring is certain to run long, especially when made from a very whin sical fantasy about King Arthur by T. H. White. Try hard at TCA; it's called "Camelot" at the Shubert.

Tufts is still running "The Acceptors", an original about a social worker. Just the thing if you're at Jackson this weekend.

Throughout the year, the B.U. theatre will be studying the changing role of the hero in tragic drama. They start out with "Oedipus Rex" and "Oedipus at Colonus", next Thursday, Friday, and Saturday. Translater, Dudley Fitts was consulted for the

If you have a secret connection or something, you might have tickets for the Boston Symphony, tomorrow night. If not you can hear it on WCRB. Mozart, Schuman, and Franck symphonies are featured. Numbers 41, 7, and only respectively.

The Handel and Haydn Society will preempt Symphony Hall Sunday. Works by Purcell, Bach, and Bruckner are on the program.

Sunday will also find Alan Barker, a young pianist, at Jordan Hall. Beethoven and Mozart should be well represented in this

Next Thursday, Joseph Krips will wield the baton at a concert by the Israeli Philharmonic. The festivities are at Symphony

Kresge will play host to the After Dinner Opera Co. next Friday. The Baton Society is selling tickets in building ten.

Folk-singers Ewan Maccoll and Peggy Seeger will be singing folk songs (what else?) at Jordan Hall next Saturday. Ethnic ditty lovers should get in touch with the Folklore Concert Series

Jan Peerce, of the Metropolitan Opera, was the first American tenor to appear at the Bolshoi Theatre since WW II. (so what). He is also the only singer who will be at Symphony Hall next

The celebrated lutenist and guitarist, Julian Bream, will provide Peerce with competition. He's giving a recital at Jordan Hall, next Sunday.

TEN OPEN REHEARSALS

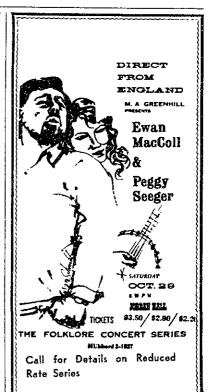
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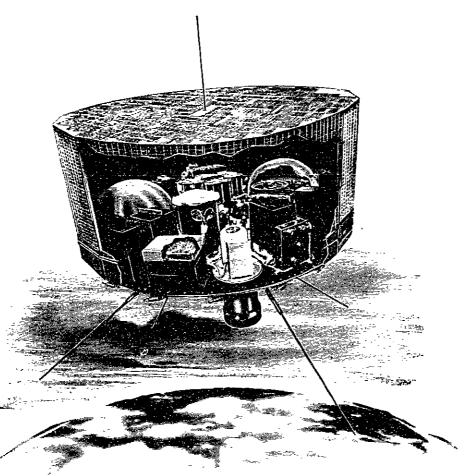
Triangular Tomorrow

New Hampshire Jars Harriers

Both varsity and freshman cross country teams were downed by the University of New Hampshire at Durham last Saturday. A homecoming crowd of 2000 watched the UNH harriers, leaders in the Yankee Conference, top the Beavers 15-49 in the varsity contest and 18-41 in the frosh fray.

George Withbroe, '61, paced the harriers for the third consecutive week with a seventh spot finish. Roger Hinrichs, '63, Steve Banks, '62, Paul Robertson, '61, and captain Herb Wegener, '61, 9th through 12th, respectively, rounded out the MIT scoring. Hans Hinteregger, '64, early leader in the race, battled a later UNH surge to cop third place in the preliminary encounter.

Both Tech squads return to their home course, Franklin Park, tomorrow, where a triangular battle is scheduled with Northeastern University and Coast Guard Academy. Past history of the meet indicates a fierce three-way struggle is to be anticipated.



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IM Mat Tournament Next Week; Sailing, Tennis Continuing

The annual intramural wrestling tournament will be held next Friday and Saturday in the du Pont Athletic Center. Both teams and individuals are eligible to compete, but team formation is encouraged. Team entries are due in the Athletic Association office by 4 P.M. today.

Each team may enter only one man in each of the seven weight classes: 129, 137, 147, 157, 167, 177 lb and unlimited. Only persons who have not received a college letter or 1963 numerals are eligible. The weight check will be held Friday in the du Pont training room from 12-4 P.M.

Sailing Under Way

The fall segment of intramural sailing is nearing completion with racing in teams of two boats each composed of skipper and crew. Points will be divided between the fall and spring winners, with the trophy going to the highest overall point winner.

Tennis Finals Next Week
Also moving toward a close is
the IM tennis tournament. Quarter and semi-final matches will
be held this weekend, with consolation and final rounds set for
next week, the winner being determined on the weekend.

Tech Sailors Fifth In Danmark Trophy

In the sailing meet held last weekend at Coast Guard Academy, in New London, Connecticut, for the Danmark Trophy, an MIT second team finished fifth. In the regatta, won by Boston University, MIT was represented by Ken Klare, '63, and Warren McCandless, '62.

There were two minor events also held the past weekend, on the Charles River. In one race, Mike Lifschitz, '63, and Chuck Glueck, '62, walked away from a field composed of six other schools.

The varsity sailing team was kept inactive last week in preparation for this weekend. This will be the heaviest sailing weekend of the fall, with four varsity meets scheduled, one of which is an intersectional meet at the Merchant Marine Academy, at King's Point, New York.

How They Did

Cross Country
N. Hampshire 15, MIT 49
N. Hampshire 18, MIT (F) 41

Andover 5, MIT (F) 0 Brown 5, MIT (F) 0 Harvard 5, MIT (F) 1

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Delta Upsilon upset defending champion Beta Theta Pi, 18-7, Sunday to capture the League I intramural football title and earn a berth in the playoffs. Sigma Alpha Epsilon and Theta Chi won the crowns of leagues II and III,

The other league championships will be up

for grabs tomorrow and Sunday, with the feature game between Delta Tau Delta and Lambda Chi Alpha for the League IV honors. Both teams hold three win, no loss marks for the month-long season.
"B" Situation Complex

The chances of a tie developing in at least one "B" league are strong, considering the won-lost situation and the scheduling. In only one league, League V, is a winner sure to be named without playoffs. Student House and Dover

Club, both 3-0, meet Sunday. In League VI, Grad House Dining (3-1) meets Pi Lambda Phi (4-0). Delta Tau Delta II (2-0-1) and Phi Kappa Theta (3-0) clash in League VII. Both of these Saturday encounters could produce a tie. In League VIII, Alpha Tau Omega (4-0) takes on Theta Delta Chi and runnerup Senior House II (3-0-1) plays Phi Beta Epsilon.

Vogt Passes for 3 TD's Tim Vogt, '62, quarterbacking the DU's, passed for all three touchdowns in the second and third quarters. The first score, a loft to Paul Olmstead, '62, just before the half, marked the first time the Betas had been scored upon this season. In the third quarter, Vogt connected twice with Jeff Paarz, '63, for a three touchdown margin.

Division A Results

League I: Sigma Chi 20, Tau Epsilon Phi 0; Delta Upsilon 18, Beta Theta Pi 7; League II: Graduate House 13, Sigma Phi Epsilon 12; Sigma Alpha Epsilon 42, Phi Delta Theta 0; League III: Theta Chi 6, Sigma Alpha Mu 0; Phi Gamma Delta 52, East Campus 0; League IV: Delta Tau Delta 25, Burton House 0; Lumbda Chi Alpha 52, Alpha Epsilon Pi 0.

Division B Results

League V: Student House 20, Atom Smashers 0; Dover Club 26, Kappa Sigma 0; League VI: Senior House 17, Phi Kappa Sigma 0; Pi Lambda Phi 37, Theta Xi 0; Grad House Dining over NRSA by forfeit; League VII: Phi Mu Delta over Walker Dining by forfeit; Phi Kappa Theta 31, Delta Kappa Epsilon 0, League VIII: Theta Delta Chi 59, Phi Beta Epsilon 13; Alpha Tau Omega 33, Baker House 0; Senior House II 14, Phi Sigma Kappa 6.

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Tech Coop

Air Force Soccermen Here Saturday With ex-MIT Coach

A former MIT coach will direct the Air Force Academy soccer team against MIT tomorrow on Briggs Field. The match is scheduled to start at 2 P.M. Arne Arnesen, who coached the Tech soccer teams for three years until 1957, has been the Falcons' coach since the Academy was opened.

The servicemen will be making their first tour in the East. They also met Navy and the midshipmen triumphed, 5-0. Previously the Falcons had played to two ties, with the University of Colorado and the Colorado School of Mines.

Coach Charles Batterman's Techmen will be after their fourth victory, having defeated Worcester, Trinity and Middlebury. In their most recent contest the Engineers bowed to Tufts, 3-2.

This will be the first of three home games for MIT. Wednesday Springfield will be here and Coast Guard follows Saturday. After next Saturday the Engineers will be engaged only in away games.

The occasion of tomorrow's game raised the speculation that someone might produce a live Beaver to serve as MIT's mascot should the Air Force team bring its mascot, a falcon.

On Deck

Tomorrow, October 22

Soccer with Air Force 2 P.M. Cross country with C. Guard, Northeastern (V&F) 2 P.M. Wednesday, October 26

Soccer with Springfield 2:30 P.M.

Friday, October 28

Soccer (F) with Belmont High 3:15 P.M.

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-ARROW-

Africa Offers Challenging Experience

(Continued from page 1)

After the London orientation, we flew to Lagos, Nigeria via Tripoli, Libya. With only a six hour stopover before flying on to Ghana, we got a glimpse of the skyscrapers, air-conditioned clubs and plush homes of Lagos, contrasted with the mammy balancing her burden casually on her head or selling her brightly colored cloths, the slums which compare well to those in New York City, and the all-purpose hard-riding bus, the mammy wagon. The twenty Crossroaders assigned to Ghana then made the two hour airtrip to Accra, the capital of Ghana. We were driven to the University College of Ghana which was to be our headquarters for the summer.

The University is a beautiful complex of white buildings with red-tiled roofs spread over a square mile of rolling landscape within sight of Accra and the Atlantic Ocean. The student living quarters for the 750 undergraduates made this former MIT student wonder with envy. Each room in the dormitories has a balcony overlooking the court and all of the furniture is made out of rich mahogany (even the wastebaskets). The USA imports 45% of its mahogany from Ghana. The dining halls are more like Chinese temples, being brightly decorated and spacious with long rich dining tables (of mahogany, of course).

The next week was spent in and around Accra as we witnessed the Republic Day Celebrations. Kwame Nkrumah was sworn in as first President of the Republic of Ghana. We were caught up in the emotion of the celebrations and enjoyed the parades, sports events and State Ball as did the Ghanians. People constantly approached me on the streets saying that they had seen me at the University and wanted to become friends. One day I took a bus from the College to Accra. I said, "Good Morning", to the driver, whereupon all of the passengers replied in unison, "Good Morning"! Later when I did not appear at the bus terminal for the return trip at the specified hour, the municipal bus hunted me down on a side street. The driver said he knew I was going back and didn't want me waiting two hours for another bus! The people cheered when I got on. Such are the people of Ghana.

The next six weeks were spent in villages on voluntary self-help projects. Twelve Crossroaders and twenty-six Ghanian students together with villagers built a three-room concrete school house at Prampram, a fishing town. Our American group was then split in half for two more work camps. Six of us joined with twenty Ghanians to help with the construction of a community plaza in Larteh, a town snuggled in the Akwapim mountain range.

When we arrived, the welcoming committee was well prepared. The children cheered and carried our luggage, sign posters were everywhere telling of our arrival and the chief and his elders greeted us in traditional fashion. We poured libations to our ancestors with not only the chief but with each of the clan chiefs in their respective compounds. An enterprising cafe proprietor invited us in for drinks on the house that first day. In the next two weeks we worked, played and lived with these people who made us citizens of Larteh and even renamed some of their young children after us. When we departed not many eyes were dry as over 500 people lined the streets as our lorry inched its way out of Larteh.

Sitting at my desk here in Cambridge six weeks after this experience, I am convinced that many of the Crossroaders will return to one of the great challenges of the twentieth century. As Rev. James Robinson said to us in New York, "Africa's future is our future - it is the world's future." We did not go to Ghana to mold people in our own image. We went because Americans are terribly ignorant about Africa. We went because we believe that this world is not rockets or dollars or even all protons — it is human beings who want the same things out of life as you and I do.

Operation Crossroads Africa will be sending another group to West Africa this summer and possibly a pilot project venture to East Africa. Anyone interested in participating should write immediately to: Africa Student Study-Work Camp Project, 360 West 122nd Street, New York 27, New York.

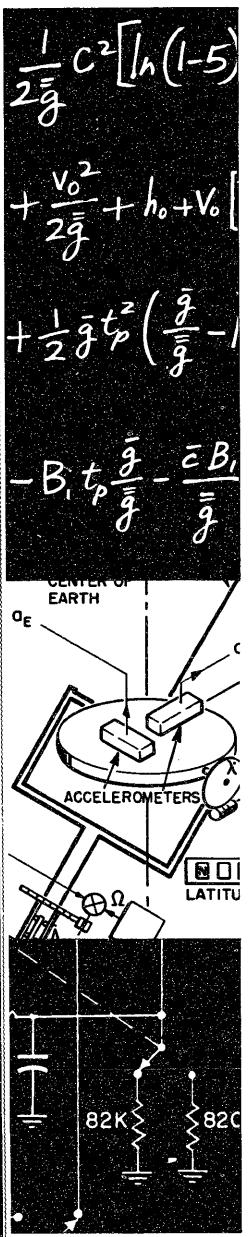
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Skull House Shuffle Slated

Phi Kappa Sigma will give its campus-wide Skull House Shuffle on October 29, beginning at 8 P.M.



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